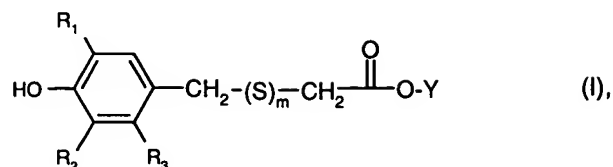


## Claims

### 1. A product obtainable by reacting

#### a) At least one compound



wherein

one of  $\text{R}_1$  and  $\text{R}_2$  independently of one another represents hydrogen or a substituent selected from the group consisting of  $\text{C}_1$ - $\text{C}_{18}$ alkyl, phenyl,  $(\text{C}_1$ - $\text{C}_4$ alkyl) $_{1,3}$ phenyl, phenyl- $\text{C}_1$ - $\text{C}_3$ alkyl,  $(\text{C}_1$ - $\text{C}_4$ alkyl) $_{1,3}$ phenyl- $\text{C}_1$ - $\text{C}_3$ alkyl,  $\text{C}_5$ - $\text{C}_{12}$ cycloalkyl and  $(\text{C}_1$ - $\text{C}_4$ alkyl) $_{1,3}$  $\text{C}_5$ - $\text{C}_{12}$ cycloalkyl;

and the other one represents a substituent selected from the group consisting of  $\text{C}_1$ - $\text{C}_{18}$ alkyl, phenyl,  $(\text{C}_1$ - $\text{C}_4$ alkyl) $_{1,3}$ phenyl, phenyl- $\text{C}_1$ - $\text{C}_3$ alkyl,  $(\text{C}_1$ - $\text{C}_4$ alkyl) $_{1,3}$ phenyl- $\text{C}_1$ - $\text{C}_3$ alkyl,  $\text{C}_5$ - $\text{C}_{12}$ cycloalkyl and  $(\text{C}_1$ - $\text{C}_4$ alkyl) $_{1,3}$  $\text{C}_5$ - $\text{C}_{12}$ cycloalkyl;

$\text{R}_3$  represents hydrogen or methyl;

$\text{Y}$  represents hydrogen or  $\text{C}_1$ - $\text{C}_6$ alkyl; and

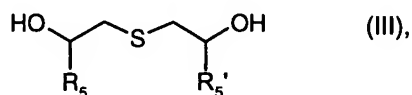
$m$  represents zero or 1; with

#### b) At least one compound



wherein  $\text{R}_4$  represents  $\text{C}_4$ - $\text{C}_{25}$ alkyl; and;

#### c) At least one compound



wherein  $\text{R}_5$  and  $\text{R}_{5'}$  independently of one another represent hydrogen or  $\text{C}_1$ - $\text{C}_6$ alkyl.

### 2. A product obtainable by reacting

- a) At least one compound (I), wherein one of  $R_1$  and  $R_2$  represents methyl or tert-butyl and the other one of  $R_1$  and  $R_2$  represents tert-butyl;  $R_3$  represents hydrogen; Y represents  $C_1$ - $C_8$ alkyl; and m represents zero or one; and
  - b) At least one compound (II), wherein  $R_4$  represents  $C_5$ - $C_{18}$ alkyl; and;
  - c) At least one compound (III), wherein  $R_5$  and  $R_5'$  represent hydrogen.
3. A product obtainable by reacting
- a) At least one compound (I), wherein one of  $R_1$  and  $R_2$  represents methyl or tert-butyl and the other one of  $R_1$  and  $R_2$  represents tert-butyl;  $R_3$  represents hydrogen; Y represents methyl and m represents zero; and
  - b) At least one compound (II), wherein  $R_4$  represents  $C_5$ - $C_{18}$ alkyl; and;
  - c) At least one compound (III), wherein  $R_5$  and  $R_5'$  represent hydrogen.
4. A product obtainable by reacting
- a) A mixture comprising a compound (I), wherein  $R_1$  and  $R_2$  represent tert-butyl;  $R_3$  represents hydrogen; Y represents methyl and m represents zero; and  
A compound (I), wherein one of  $R_1$  and  $R_2$  represents methyl and the other one tert-butyl;  $R_3$  represents hydrogen; Y represents methyl and m represents zero; and
  - b) At least one compound (II), wherein  $R_4$  represents  $C_5$ - $C_{18}$ alkyl; and;
  - c) At least one compound (III), wherein  $R_5$  and  $R_5'$  represent hydrogen.
5. A composition comprising
- A) A product according to claim 1; and
  - B) A functional fluid subject to oxidative, thermal or light induced degradation.
6. A composition comprising
- A) A product according to claim 1; and
  - B) A base oil of lubricating viscosity.
7. A process for preparing a liquid mixture of phenolic sulphur-containing antioxidants, which comprises reacting
- a) At least one compound (I), wherein  $R_1$ ,  $R_2$ ,  $R_3$ , Y and m are as defined in claim 1, with

- b) At least one compound (II), wherein  $R_4$  is as defined in claim 1; and
  - c) At least one compound (III), wherein  $R_5$  and  $R_5'$  are as defined in claim 1.
8. A process for stabilising a composition of matter subject to oxidative, thermal or light induced degradation, which comprises adding to said composition of matter at least one product according to claim 1.